

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Zeira et al.

Our File: I-2-0162.1US
(Formerly I-2-162.1US)

Application No.: 09/845,803

Date: March 8, 2002

Confirmation No.: 3229

Filed: April 30, 2001

For: DOWNLINK POWER CONTROL FOR
MULTIPLE DOWNLINK TIME SLOTS IN
TDD COMMUNICATION SYSTEMS

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Technology Center 2600

Group: 2661

Examiner: Not Yet Known

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. § 1.56, Applicants wish to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form.

The undersigned hereby states that the five (5) references included in this Information Disclosure Statement were cited in the related PCT Search Report, copy enclosed, dated February 20, 2002, for the corresponding PCT application.

German Patent Nos. 19917061, 19957299 and 19909299 are German translated patents. We do not have English translations of these patents. Accordingly, provided herein are English translations of the Abstracts for each of the German patents, which Applicants believe to be an explanation of their relevance to the present application.

German Patent No. 19917061

According to the inventive method for adjusting transmitter power, radio stations are interlinked via a radio interface, which is organised according to a TDD transmission method with several time slots per frame. Said time slots can be allocated to different connections. Emissions from a first radio station are received by a second radio station in a control loop-type arrangement, correction values are determined based on the emissions received and the correction values are conveyed to the first radio station where they are taken into account in adjusting the transmitter power for subsequent emissions. The invention also provides that the first radio station receives emissions from the second radio station in at least two time slots of the frame, that the at least two emissions are compared with each other and that the result of this comparison is taken into account in adjusting the transmitter power.

German Patent No. 19957299

The invention relates to a method for a transmit power control in a radio communication system in which two stations (BS, MS) are interlinked via a radio interface, said radio interface being organized according to a TDD method with a plurality of time slots that can be allocated to different connections. In the prior art, a subscriber station (MS) is known to receive emissions (V1 V3, RACH, BCCH) from of a base station (BS) and to determine the interference values (Int) of individual time slots on the basis of the emissions received. A large number of these interference values (Int) is cyclically processed by means

of a transmit power control algorithm for adjusting a transmit power for the subsequent emissions of the base station (BS) individually for every time slot. This method can be used in addition to the normal closed loop power control according to which the power control functions only non-individually for several time slots. In order to more quickly adjust the transmit power of the base station, for example if the transmit conditions change, the individual interference values (Int) of every single time slot are taken into consideration for the transmit power regulation of subsequent emissions in the base station (BS).

German Patent No. 19909299

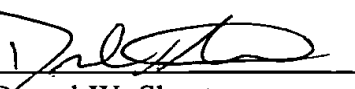
The invention relates to a method for regulating the transmission power of radio stations in a W-CDMA radio communications system, whereby an averaging of the quality evaluation is carried out on the receive side which guarantees a more precise criterion for the quality of the transmission conditions. A temporal variance of the received signal is determined on the receive side and an adjustment which is inversely proportional to the variance of the received signal is made to the averaging time for the mean value. If the averaging time has not been predetermined in a fixed manner, but follows the changes in the ratios of the radio interface, the regulation of the transmission power can be individually improved for each connection.

Applicant: Zeira et al.
Application No.: 09/845,803

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

Zeira et al.

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Enclosures



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
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(Formerly I-2-162.1US)SERIAL NO.
09/845,803APPLICANT
Zeira et al.FILING DATE
April 30, 2001GROUP
2661

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5	8	9	8	9	2	5	4/99	Honkasalo et al.			

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	AB	19	9	1	7	0	6	1	11/00	Germany				X
	AC	19	9	5	7	2	9	9	6/01	Germany				X
	AD	19	9	0	9	2	9	9	9/00	Germany				X
	AE	0	0	6	5	7	4	8	11/00	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.